

A&M DATA

IV Meeting on Astrophysical Spectroscopy - A&M DATA - Atmosphere, May 30 to June 2, 2022

Dear Colleagues,

The Organizing Committee is pleased to inform you that the IV Meeting on Astrophysical Spectroscopy - A&M DATA - Atmosphere will be held in the period May 30 to June 2, 2022, Vrdnik. The Conference covers a wide range of topics from fundamental studies to applications. We intend to organize a blended conference, with on-line and in-person presentations in order to support the attendance of those with limited possibilities to travel. The Organizing committee will monitor the situation with the COVID-19 pandemic and in the case of a severe situation, the format of the conference will be switched to entirely on-line.

The official conference website (<http://asspectro2022.ipb.ac.rs>) will be used for all conference activities including informations and registration.

Scientific Rationale

Spectroscopy is a powerful tool for the analysis of radiation from different plasmas in astronomy, laboratory, fusion research, atmospheric research and industry. Efficiency of theoretical analysis, synthesis and modelling of stellar spectra as well as the spectra from other plasma sources, depends on atomic data and their sources. In particular, for the modeling of stellar atmospheres and opacity calculations a large number of atomic data is needed, since we do not know a priori the chemical composition of a stellar atmosphere. Consequently, the development of databases with atomic data and astroinformatics is important for stellar spectroscopy.

Investigation of spectral line profiles is of significance for various research fields not only in astrophysics, where, for example, by analysis of stellar line profiles we can obtain effective temperature, chemical composition, surface gravity and other data on the investigated star, but also for a number of topics in physics and technology.

The Conference is planned as an opportunity to consider the above-mentioned aspects of spectroscopic research on plenary sessions and then to work on the special mini-projects, which will result in common papers to be published in international scientific journals.

Organizers

Institute of Physics Belgrade
Faculty of Sciences – University of Novi Sad
Astronomical Observatory

Web: <http://asspectro2022.ipb.ac.rs>

Registration fee is 50 EUR

Within each section, mini-projects with a paper in international journal as the objective, can be submitted, with an abstract and a list of proposed participants.

Proceedings

We are going to publish selected papers presented at the conference in the journal "Contributions of the Astronomical Observatory Skalnaté Pleso (CAOSP)" as a Special Issue "Astrophysical Spectroscopy: A&M DATA - Atmosphere". For more details on the journal, please follow this link: <https://www.ta3.sk/caosp/caosp.php?view=home>

The article, based on your conference presentation, should be prepared according to the requirements of the journal. Please prepare your manuscripts following the official CAOSP instructions, see link: <https://www.ta3.sk/caosp/caosp.php?view=instructions>

The deadline for paper submission is July 31, 2022.

Deadline for registration: 20 April 2022

Please send the registration form via email to: aspectro.conf@gmail.com

The format of the conference:

The Conference is planned to have Lectures, Progress Reports and Poster presentations. Additionally, participants will work on the special mini-projects. One of the aims of the meeting is to work on mini projects in order to start collaboration between two or more groups.

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REGISTRATION FORM

Name:

Affiliation:

E-mail:

I will participate in mini-projects: M1___ M2___ M3___ M4___ M5___

I propose Mini-project Yes No

If Yes, please attach title, list of participants and abstract.

I propose a Lecture___ Progres Report___ Poster___ Yes No

If Yes, please attach title/titles and abstract/abstracts

Sections

M1 Radiative & Colisional Processes and Spectra,

M2 Spectral line profiles in stellar and laboratory plasmas,

M3 A&M DATA and HPC,

M4 A&M DATA and standards.

M5 Modeling the Atmosphere: data&models

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Scientific Organizing Committee

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